

## In the Claims:

*Please amend claims 7, 9, and 10, as follows:*

*Sub C3*

7. (amended) An optical monitoring system as claimed in claim 1, further comprising:  
a reference signal source, installed on the optical bench, that generates a reference signal that is filtered by the tunable filter; and  
a reference signal sensor that detects the reference signal which has been filtered by the tunable filter.

*Sub CS*

9. (amended) An optical monitoring system as claimed in claim 1, further comprising:  
a reference signal source, installed on the optical bench, that generates the reference signal;  
a collimating lens, installed on the optical bench, for improving the collimation of the reference signal;  
a combining filter, installed on the optical bench, that inserts the reference signal into a beam path of optical signal prior to filtering by the tunable filter;  
a separation filter, installed on the optical bench, that separates the reference signal from the optical signal, post filtering by the tunable filter; and  
a reference signal sensor, installed on the optical bench, that detects the reference signal from the separation filter.

10. (amended) A method for constructing an integrated optical monitoring system, comprising:  
installing an optical bench in a hermetic package;  
inserting a fiber pigtail through a fiber feed-through, into the package;  
connecting an end of the fiber pigtail to the bench;  
installing a tunable filter on a top of the bench to filter an optical signal from the fiber pigtail; and

*Sub B2*